

For the repair of all the roads within the Bridgewater Trust for a term of three years from the 6th of October next.

For the execution of that portion of the Edinburgh and Northern Railway, extending from Burntisland Pier to Kinghorn.

For supplying the Trent Valley Railway Company with about 200,000 sleepers of good sound Baltic timber.

For supplying the Clydesdale Junction Railway Company with about 2,500 Tons of Rails, and about 600 Tons of Chairs.

For supplying the Leeds and Thirsk Railway Company with 100,000 Railway Sleepers.

For the execution of works on the East Lancashire Railway, viz., the Accrington Contract, being a distance of about 8 miles.

For the execution of that portion of the Newcastle and Berwick Railway, extending from Nethererton to Tweedmouth, being a distance of about 53 miles. To be let in four contracts.

For the execution of works on the Leeds, Dewsbury, and Manchester Railway, viz., the Chorwell Contract, being a distance of about 2½ miles.

For supplying the Wakefield, Pontefract, and Goole Railway Company with about 7,000 tons of Malleable Iron Rails, and 2,000 tons of chairs.

### COMPETITIONS.

The Committee for the establishment of Public Parks, Walks, &c., at Manchester, offer two prizes, one of 50 guineas and the other of 25 guineas, for the best and second best set of Plans (with estimates), for the laying out, &c., of the sites already purchased by them.

### APPROACHING SALES OF WOOD, &c.

BY AUCTION.

Adjoining the entrance to the East Country Dock, Rotherhithe, about 85 loads of new East-India Teak, and 60 loads of sound African Oak Timber.

BY TENDER.

In the Plantations of the Duke of Montrose, situate in the Parishes of Drymen and Buchanan, Stirlingshire: many Thousands of Larch Trees of some size, adapted for Railway Sleepers, Roofing and Joisting, and other purposes.

### TO CORRESPONDENTS.

"Constant Reader."—Notwithstanding our correspondent's objection, we know no better despatch for his £15 than a Savings' Bank. It is difficult to employ advantageously a small sum.

"A Subscriber."—Mr. Cockerell's Lectures are not published. Accurate reports of the last course will be found in the Builder, pp. 31, 38, 63, 73, 85, &c. The "Athenaeum" contains very excellent and full reports of previous courses.

"A. B."—The letter on Purity of Water is simply an advertisement.

"One of your constant Readers."—Reply to the whole of the questions put to students in Architecture at University College would form an elaborate treatise on the subject. We will see what can be done.

"J. Morgan." (School of Design); "T. A." and "Amicus" are declined with thanks: we cannot afford space.

"Ed. H."—Larson's "Price Book" will give the information required.

"J. C."—We shall be glad to learn the decision of the commissioners.

"A Youngster."—The Institute of Architects have published a valuable pamphlet on "Dilapidations," which may be had of Weale, Holborn. There are several larger works on the same subject. The most recent is by Gibbon.

"H. A."—The block unfortunately arrived too late for the present No. We shall be glad to send ourselves of it next week.

"Messrs. Testa's Glass Warehouse."—A correspondent wishes to know where it is situated.

"A. B."—We shall be glad to see the drawing.

"W. J. S."—We cannot tell without seeing the drawing.

"A Young Builder."—If the circumstances were correctly stated to us, our reply may be safely acted on.

"Stained Glass Window in St. James's Church."—Correspondents must excuse us for not replying to the numerous letters we have received on this subject. It is hoped that a change will yet be made.

"J. C."—"W. H."—"E. H."—"J. L."—"J. P." and various readers, next week.

Received: "Second Report of the Commissioners for Inquiring into the State of large Towns,"—"The Philanthropist," No. 1. (a Monthly Magazine connected with the Metropolitan Literary Institution),—"Dolman's Magazine," No. VII.,—"Old England," part 21 (Knight),—"Pictorial Gallery of Arts," part VIII.,—"Illuminated Magazine," No. III.

### ADVERTISEMENTS.

#### PRIZES IMPORTANT TO INVENTORS AND PATENTEES.

**A GOLD MEDAL**, value 100*l.* and a **SILVER MEDAL**, value 50*l.*, will be given by Mr. M. JOSCELIN COOKE. The Gold medal for the best Patent, and the Silver medal for the best design taken out or Registered at the OFFICE for PATENTS and DESIGNS, 20, Half-Moon-street, between the 1st of November, 1866, and the 1st of June, 1867. The Prizes will be awarded by competent judges on the 10th June, 1867. The conditions to be observed, together with instructions, charges, and every information for obtaining Patents in England or Foreign Countries, or Registering Designs, will be forwarded gratis, on application to Mr. M. JOSCELIN COOKE, at the Office for Patents and Registration of Designs, 20, Half-Moon-street, Piccadilly, London.

**ROYAL ADELAIDE GALLERY**, Lower Arcade, Strand.—ATMOSPHERIC RAILWAY daily, with a Lecture, at Two and at Half-past Eight. A series of Lectures, with illustrations, on the manners and customs of the Ancient Egyptians, by Mr. F. Clarkson, every Monday Evening. Mr. Russell's Lectures on Character, with Musical Illustrations, every Tuesday, Thursday, and Saturday Evenings. Les Reunions Magiques, on Wednesday and Friday. Lecture on Science, Daily, including Major Remondet's Artificial Memory; Reale's Rotatory Steam-engine, &c. Every Evening a grand Promenade Concert, supported by first-rate talent, both instrumental and vocal. **NEW ZEALAND CHIEF** on Tuesday, Thursday, and Saturday, at three o'clock in the afternoon; and on Monday, Wednesday and Friday Evenings at eight o'clock.

**A MAGNIFICENT, EXTENSIVE, and UNIQUE COLLECTION OF TROPICAL FRUITS**, modelled by M<sup>rs</sup>. Grimard during his late Residence in the Isle of France, is just deposited at the **ROYAL POLYTECHNIC INSTITUTION**. The **ATMOSPHERIC RAILWAY** is lectured upon by Professor Bachhoffner, and exhibited Daily, and in the Evenings. A **NEW AMERICAN INVENTION**, COLEMAN'S PATENT LOCOMOTIVE ENGINE for ascending and descending inclined planes on Railways without the aid of stationary power. **SWIMMING and DIVING ILLUSTRATED** by the Son of Capt. Stevens, the celebrated teacher of Swimming on Mondays, Wednesdays, and Fridays, at Two o'clock, and on the Evenings of Tuesdays and Thursdays, at half-past Eight o'clock. The other Exhibitions, &c., as usual.—Admission, One Shilling; Schools, half-price.

#### CAEN STONE.

**LUARD and REEDHAM** have a quantity of the above stone, of the best quality, direct from their Quarries at Aikmange, which may be inspected at the Norway Sufferance Wharf, Greenwich.—Further particulars at Mr. G. GATES', 18, SOUTHWARK-SQUARE, SOUTHWARK.

#### BATH STONE.

**T. E. WELLER, of STEEL-YARD WHARF** (late Drev's), begs to inform Stone Merchants, Contractors, &c., that he can supply them with best **FARLEIGH-DOWN STONE** on lower terms than ever before offered.—Depot for immediate supplies, **DRUCE'S WHARF**, Chelsea.

**PINILICO MARBLE AND STONE WORKS, BEL-GRAVE WHARF, PINILICO-ROAD.**

**SAMUEL CUNDY** begs to inform Architects, &c., that every description of Stone, Marble, and Granite work is executed at the cheapest possible rate. Estimates given for Mason's Work in all its branches. Gothic Work, Tombs, Monuments, &c. **MARBLE WORK** for Halls, Dairies, Tables, Columns, Vases, at most reasonable prices.

A large collection of Designs for Mural and other Monuments.

**CHINESE PIECES** from Twelve Shillings upwards. Depot for **CAEN STONE**, &c.

**PAINTING BRUSHES OF SUPERIOR QUALITY. TO PAINTERS, BUILDERS, &c.**

**J. J. KENT AND CO., MANUFACTURERS.**

11, GREAT MARLBOROUGH-STREET, LONDON, Office to Painters, Builders, &c. Painting Brushes of a quality far superior to those generally offered for sale, to which they beg to call the attention of all who prefer quality and durability to apparent cheapness.

oooooooooooo—7 *lbs.* in Dusters.  
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Painters' Brushes.  
Distemper ditto. Ground and Upround.  
Sash Tools, and Common Tools.  
Tar Brushes and Masons' Brushes, and all other Brushes used by Painters and Artists.

Lists of Prices of Painting Brushes, and of all other kinds of Brushes, forwarded on application. Established 1777.

### TO ENGINEERS, ARCHITECTS, AND BUILDERS.

#### PATENT METALLIC SAND CEMENT.

The Metallic Sand, from its chemical qualities, forms, when mixed with blue lime, a metallic cement of great strength and density; the iron, which is one of its principal constituents, combining with the lime, in which it is deposited, and communicating to it a greater degree of hardness than can be obtained by admixture with any other known material. Concrete and mortar in which the metallic sand has been used are more durable than any other, continuing to indurate with time, and not being affected by damp, otherwise than by increasing in hardness from the oxidation which is thereby occasioned.

Employed as a cement to turn water from brick work in tunnels, sewers, and other underground works, the Metallic Sand is found cheaper, and from its eminent adhesive qualities to form a more solid and hydraulic body, in combination with the brickwork, than any other cement at present known; and in all cases the Metallic Sand is found the best substitute for pozzolana that has ever been presented to the public. As an external stucco, the Metallic Cement assumes a rich stone-colour without the aid of paint or tints of any kind, does not vegetate, and is entirely free from cracks and blisters, and continues to improve both in appearance and durability by exposure to the weather. The Proprietors refer with confidence to works in which the Metallic Sand has been extensively employed as concrete and mortar, specified in the prospectus, where also will be found references to very extensive erections which have been stuccoed with the Metallic Cement.

Further information will be given, and specimens shown, on application to Mr. C. K. Dyer, 8, New Broad-street; and at the Metallic Cement Works, King's-road, opposite Pratt-street, Camden New Town.

### TO ENGINEERS, ARCHITECTS, AND CONTRACTORS.

**GREAVES'S LIAS CEMENT** and **GROUND BLUE LIAS LIME**, at 2, South Wharf, Paddington, London, and Works, Southam, Warwickshire. Agents for Liverpool, Mr. WELLS, 56, GLOSTER-STREET; ditto for Manchester, Mr. J. THOMPSON, BACK KING-STREET; ditto for Chester, Mr. J. HARRISON, LINEN HALL-STREET.

**ATKINSON'S CEMENT**.—The public is respectfully informed, that the price of this very excellent Cement, which has now been in use for Architecture and Engineering works upwards of thirty years, is reduced to 7*s.* 3*d.* per bushel, and may be had in any quantity at Wyatt, Parker, and Co.'s Wharf, Holland-street, Surrey side of Blackfriars-bridge.

N.B.—This Cement being of a light colour, requires no artificial colouring or painting, and may be used for stucco with three parts its own quantity of sand.

### MARTIN'S PATENT CEMENT.

**TO ARCHITECTS, BUILDERS, AND PAINTERS IN FRESKO.**

**STEVENS and SON, PATENTEES and SOLE MANUFACTURERS**, beg respectfully to announce that this beautiful Cement has now arrived at a degree of excellence far surpassing their most sanguine expectations. For all internal work it possesses a great superiority over every article hitherto in use; it is now being used extensively by Government in the British Museum and other public buildings. **IT DOES NOT THROW OUT ANY SALT**, but presents a beautifully plain and perfect surface, which may be painted upon any work within four days without peeling. It is equally applicable for walls or lath, for mouldings, architraves, skirting, or flooring; and is admitted to form the best ground for fresco painting, having been used for many of the prize frescos lately exhibiting in Westminster Hall. It will bear an intense heat without cracking, and for hardness, durability, and economy, cannot be equalled.

180, DRURY-LANE, LONDON.

Agent, for Liverpool and Manchester, Mr. E. Part, 11, Atherton's-buildings, Dale-street, Liverpool.

### KEENE'S PATENT MARBLE CEMENT.

The Patenteers of this composition beg to refer to the British Museum, the Royal Exchange, the new works at Bethlem Hospital, Greenwich Hospital, and the Coliseum in the Regent's-park, as buildings finished or in progress, in which Keene's Cement has been used as an internal stucco. Its superiority to common plastering consists in its extreme hardness; and the rapidity with which it dries, which qualifies it to receive paint or other finishing sooner than other water Cement.

When employed for skirtings, architrave, and other mouldings, in place of wood, it checks dry-rot, is impervious to vermin, prevents the spread of fire, and is more economical in its application than the material for which it thus becomes the substitute.

Confirmation of these statements is to be found in the almost universal adoption of Keene's Cement for skirting and Hall flooring in the new houses on the Hyde Park Estate, where its application is to be seen to the fullest advantage.

In Liverpool and Manchester, Keene's Cement has in several cases been used for the covering of the fire-proof warehouse floors, where its lightness and hardness give it the preference over tiles and flagging, which are much heavier, and necessarily leave the floor intersected with numerous joints, whilst Keene's Cement is laid down in one unbroken surface.

The high polish and marble-like hardness of which this Cement is susceptible render it the most suitable material for the manufacture of Scagliola.

Patentees, J. B. WHITE & SONS, Millbank-street, Westminster, Manufacturers of Roman and Portland Cement.

Depot in Liverpool, 56, Seel-street; James Woods, Agent.

### TO ARCHITECTS, ENGINEERS, CONTRACTORS, BUILDERS, MASON, AND PLASTERERS, MERCHANTS, SHIPPERS, AND THE PUBLIC IN GENERAL.

#### JOHNS and CO'S PATENT STUCCO CEMENT.

The following are the positive advantages possessed by this invention over every Cement hitherto introduced.—It will effectually resist damp. It will never vegetate nor turn green, nor otherwise discolour. It will never crack, blister, nor peel off. It will form a complete Stone casing to any Building covered with it. It so closely resembles Stone that it is impossible to detect it. It never requires either to be painted or coloured. It will keep fresh and good in the case in any Climate for any number of years. It is the only Cement that can be depended upon for export. It is the only Cement that can be used with confidence by the Sea-side. It may be used in the hottest or coldest Climates at any season. It will adhere to any substance, even to Wood, Iron, or Glass. It will carry a larger Proportion of Sand than any other Cement. It matures by age, and becomes perfect when other Cements begin to perish. It may be worked through the Winter, as frost has no effect upon it. It may be used on the Inner Walls of new Houses, which may be papered over or painted directly. Roofs laid or pointed with this Cement will remain undamaged by the severest Storms. Any Plasterer may apply it. The instructions for use being very clear and distinct. The first cost of this material does not exceed that of the cheapest Cement now in use; but with all the above-named extraordinary and valuable advantages, nothing can approach it in point of economy.

Architects and Builders who have used this Cement have declared that it requires only to be known, to be universally preferred.

Specimens may be seen, and a Prospectus fully describing the Cement and its mode of application, together with a volume of Testimonials from every part of the Kingdom, may be obtained on application to **MANN and CO., SOLE AGENTS for the Patentees**, 5, Maiden-lane, Queen-street, Chancery-lane, London, of whom also may be had,

**JOHNS and CO'S PATENT STONE-COLOUR STUCCO PAINT**, expressly intended for Painting over exterior Walls of Houses that have been covered with Roman or other Cements, and which have become dirty and discoloured.

It is in every way better suited for this purpose than White Lead Paint, which will frequently come off in flakes, being in direct chemical opposition with Cement; whereas **MESSRS. JOHNS and CO'S PATENT PAINT** having an affinity for Stucco, binds itself with it, stopping the surface, rendering the wall proof against weather, and in the finish producing a pure stone-like effect, producible by no other Paint whatever. It is cheap in its application, and may be used by any Painter, in any climate, even in the most exposed Marine situations.